



Bexar County Influenza and COVID-19 Surveillance Report, 2021-2022 Season 2022 MMWR Week 1

(January 2, 2022 – January 8, 2022)

Summary

Influenza activity is localized in San Antonio and Bexar County. Compared to the previous week, the percentage of patient visits due to influenza-like illness (ILI) increased and there was decrease in reports of specimens testing positive for influenza by the public health and hospital laboratories. There were no influenza-associated pediatric deaths and no influenza-associated outbreaks reported this week.

COVID-19 continues to be widespread throughout Bexar County. There were 32 deaths reported for Week 1. Additional data for COVID-19 can be found on the San Antonio Metropolitan Health District website:

<https://covid19.sanantonio.gov/About-COVID-19/Dashboards-Data/Surveillance>.

Table 1: Summary of Recent Bexar County Influenza, Influenza-like Illness (ILI), and COVID-19 Activity

| | Percent Change from Previous Week | Current Week 1 | Previous Week 52 | Data Cumulative since October 3, 2021 (Week 40) |
|--|-----------------------------------|----------------|------------------|---|
| Percentage of specimens positive for influenza by hospitals and public health laboratory** | ↓46.8 | 2.5% | 4.7% | 2.53% |
| Percentage of visits due to ILI* | ↓7.1% | 5.52% | 5.94% | 3.98% |
| Number of variant/novel influenza infections | 0 | 0 | 0 | 0 |
| Number of pediatric influenza deaths | 0 | 0 | 0 | 0 |
| Influenza activity code | N/A | Widespread | Widespread | N/A |
| Percentage of specimens positive for COVID-19 by hospitals and public health laboratory** | ↑26.5% | 39.1% | 30.9% | 12.6% |

Note: Data included in this table have been updated since last week's flu report with any new reports received.

+ Based on ILINet data

++ Based on NRVES and Metro Health Lab data

U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

Information on patient visits to health care providers for influenza-like illness (ILI) is collected throughout Bexar County. Health care providers voluntarily report this information to ILINet.

Figure 1: Percentage of Visits Due to ILI Reported by Bexar County ILINet Participants 2018-2022 Seasons

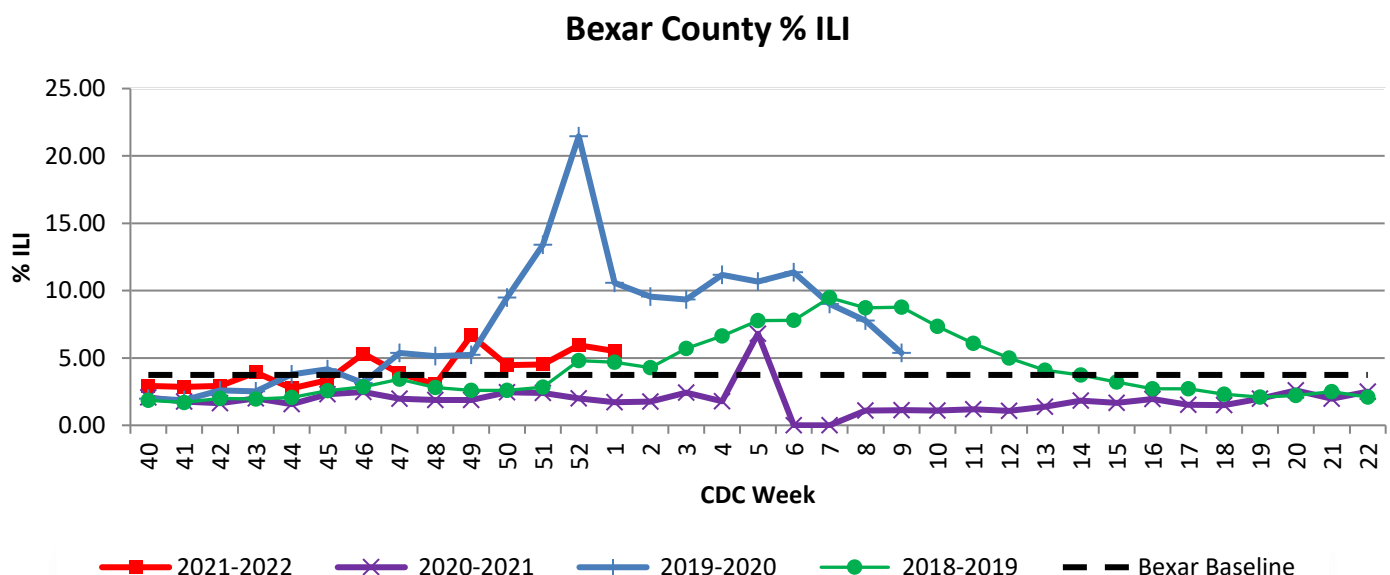
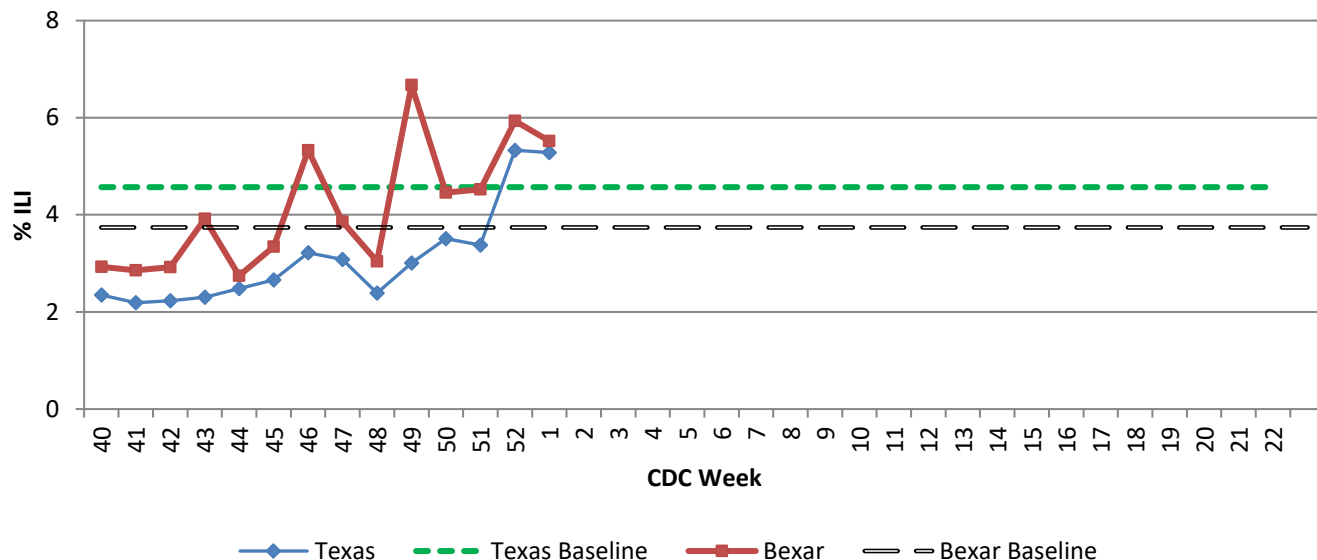


Figure 2: Percentage of Visits Due to ILI Reported by ILINet Participants, Texas and Bexar County, 2021-2022



Laboratory Results

Hospital and Public Health Laboratory Testing

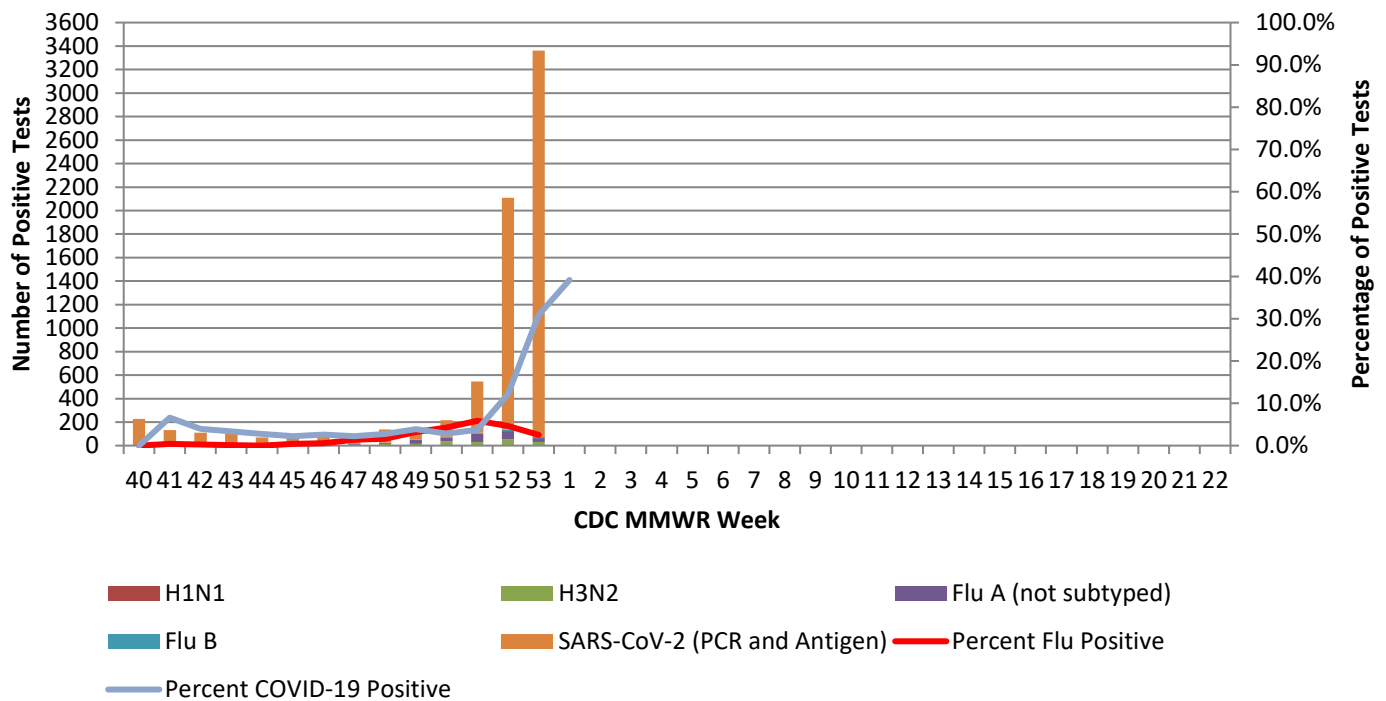
Hospital laboratories voluntarily report influenza tests (antigen, culture, and PCR) to the National Respiratory and Enteric Virus Surveillance System (NREVSS). Providers throughout Bexar County also submit specimens for influenza testing and SARS-CoV-2 testing (PCR and antigen) to the San Antonio Metropolitan Health District's (Metro Health) public health laboratory. The results reported by Texas NREVSS participants and Metro Health for the current week are summarized in the table below.

Table 2: Influenza and COVID-19 testing performed in Bexar County for the Current and Previous Week

| | Current Week 1 | Previous Week 52 | Cumulative since October 3, 2021 (Week 40) |
|--|-------------------|---------------------|--|
| Number of Influenza specimens tested | 2998 | 2930 | 19,964 |
| Number of positive Influenza specimens (n, %) | 75 (2.5%) | 137 (4.7%) | 502 (2.5%) |
| Positive Influenza specimens by type/subtype (n, %) | | | |
| Influenza Type A | 63 (84%) | 125 (91.2%) | 453 (90.2%) |
| Subtyping performed | 32 (50.8%) | 52 (41.6%) | 188 (41.5%) |
| H1N1 | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| H3N2 | 32 (100%) | 52 (100%) | 188 (100%) |
| Subtyping not performed | 31 (49.2%) | 71 (58.4%) | 265 (48.5%) |
| Influenza Type B | 12 (16%) | 12 (8.8%) | 49 (10.8%) |
| Number of COVID-19 specimens tested | 8,396 | 6,374 | 55,230 |
| Number of positive COVID-19 specimens (n, %) | 3,287 (39.1%) | 1,971 (30.9%) | 6,929 (12.6%) |
| Confirmed (n, %) | 3,287 (100%) | 1,971 (100%) | 6,929 (100%) |
| Probable (n, %) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |

Note: Influenza data included in this table is voluntarily submitted weekly via NREVSS and Metro Health laboratory and reporting may vary from week to week. SARS-CoV-2 data for this table is also submitted weekly via NREVSS and the Metro Health Laboratory.

Figure 3: Number and Percentage of Positive Influenza (PCR) and COVID-19 Tests (PCR and Antigen), Bexar County 2021-2022



Note: Influenza data included in this graph is voluntarily submitted weekly via NREVSS and the Metro Health laboratory and reporting may vary from week to week. SARS-CoV-2 data in this graph is also submitted weekly via NREVSS and the Metro Health Laboratory.

Sentinel Provider Laboratory Testing

Providers throughout Bexar County also submit influenza test results (antigen, PCR) to Metro Health on a voluntary basis. These sites are recruited to send this information on a weekly basis. The results from the participating providers are summarized in the table below (Table 3).

Table 3: Influenza testing performed by Bexar County Sentinel Providers

| | Current Week 1 | Previous Week 52 | Cumulative since October 3, 2021 (Week 40) |
|--|----------------|------------------|--|
| Number of providers reporting flu tests | 13 | 13 | 13 |
| Number of positive specimens | 34 | 82 | 332 |
| Influenza Type A, total | 34 (100%) | 76 (92.7%) | 305 (91.9%) |
| PCR | 30 (88.2%) | 65 (85.5%) | 200 (65.6%) |
| Subtyping performed | 21 (70%) | 46 (70.8%) | 90 (45%) |
| H1N1 | 0 (0%) | 0 (0.0%) | 0 (0.0%) |
| H3N2 | 21 (100%) | 46 (100%) | 90 (100%) |
| Subtyping not performed | 9 (30%) | 19 (29.2%) | 110 (55%) |
| Antigen (rapid) test | 4 (11.8%) | 11 (14.5%) | 105 (34.4%) |
| Influenza Type B, total | 0 (0%) | 6 (7.3%) | 27 (8.1%) |
| PCR | 0 (0%) | 5 (83.3%) | 3 (11.1%) |
| Antigen (rapid) test | 0 (0%) | 1 (16.7%) | 24 (88.9%) |

Note: Data included in this table is voluntarily submitted weekly by our sentinel flu providers. This data may not be comparable to previous flu seasons because providers vary by year.

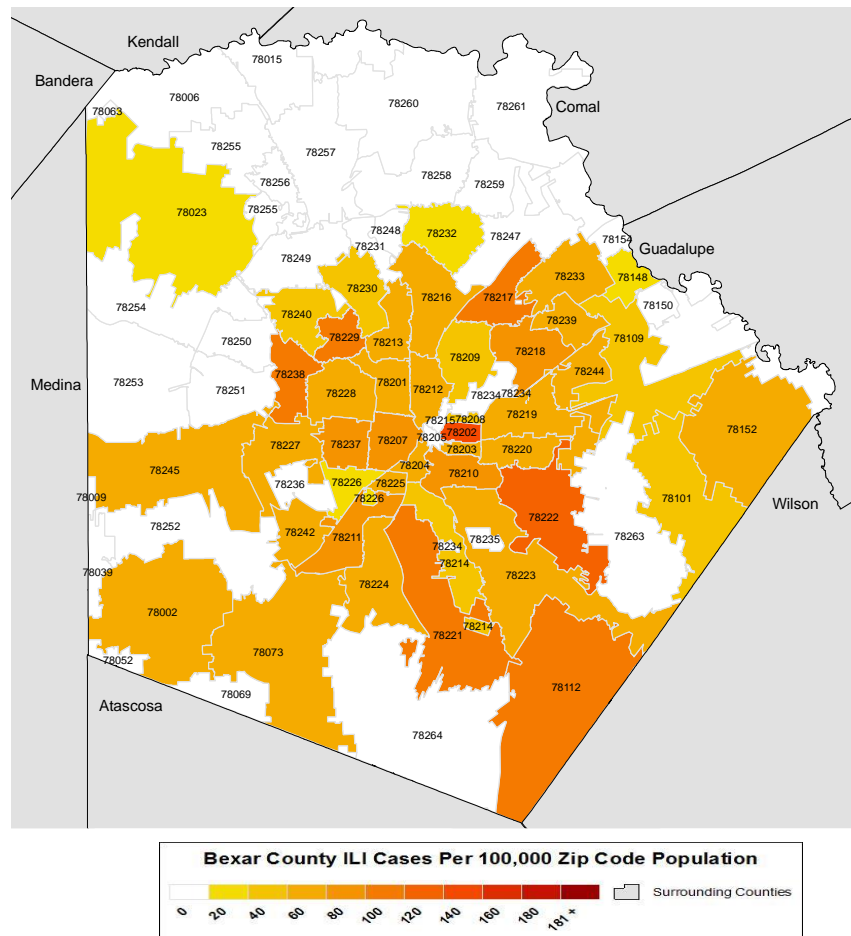
Texas Syndromic Surveillance (TXs2)

Hospital providers throughout Bexar County voluntarily report data based on chief complaints of Influenza-like Illness (ILI) defined as fever (temperature of 100°F [37.8°C] or greater) plus cough and/or sore throat. Participating providers are required to report data every 24 hours.

Table 4: ILI Cases Reported by Age Group in TXs2 during MMWR Week 1

| Age Group | ILI Cases | ILI Percentage |
|---------------|-----------|----------------|
| 0 – 4 Years | 376 | 33.54% |
| 5 – 17 Years | 244 | 21.77% |
| 18 – 44 Years | 314 | 28.01% |
| 45 – 64 Years | 138 | 12.31% |
| 65 + | 49 | 4.37% |

Figure 4: MMWR Week 1 TXs2 Reported ILI Cases by Zip Code



Note: Data is not representative of all ILI cases that visited Bexar County hospitals during the reporting week and the number of hospitals reporting varies each week. Bexar County zip code population data is obtained from American Community Survey 2019 5-year estimate.

P&I Mortality Surveillance Data

Pneumonia and influenza (P&I) death data are obtained from death certificates of Bexar County residents whose underlying or contributing cause(s) of death is reported as pneumonia or influenza.

Table 5: Bexar County P&I Deaths Occurring January 2, 2022-January 8, 2022 by Age Group

| Age Category (years) | Number of P&I Deaths |
|----------------------|----------------------|
| 0-4 | 0 |
| 5-17 | 0 |
| 18-49 | 1 |
| 50-64 | 5 |
| 65+ | 23 |

Note: Data are provisional and subject to change, errors, and duplicates

COVID-19 Mortality Surveillance Data

COVID-19 Mortality Data is obtained from Bexar County death certificates.

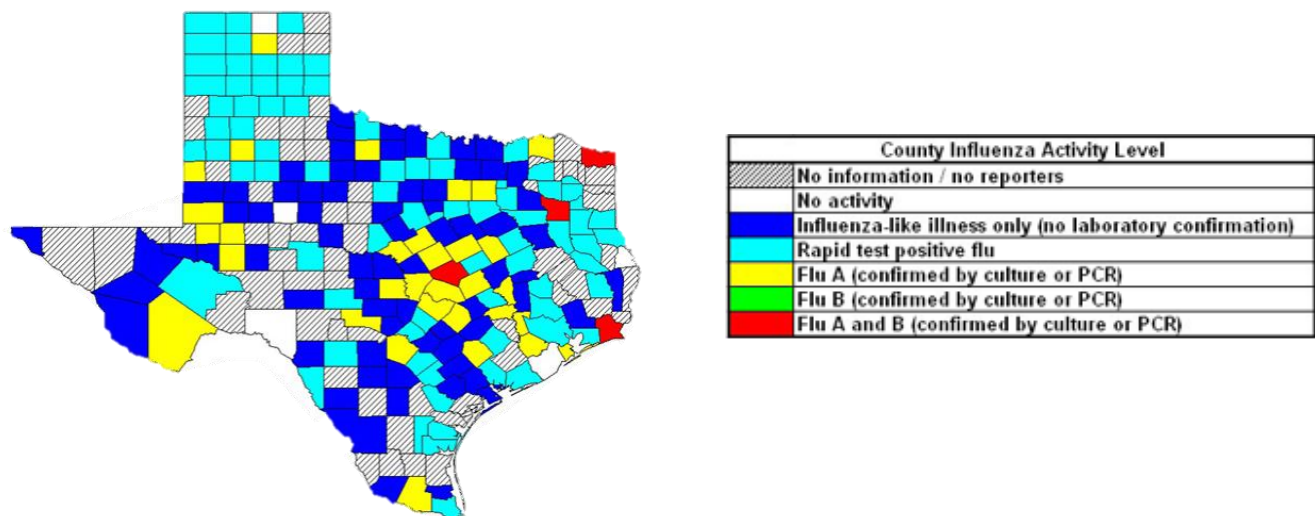
Table 6: Bexar County COVID-19 Deaths January 2, 2022-January 8, 2022 by Age Group

| Age Category (years) | Number of P&I Deaths |
|----------------------|----------------------|
| 0-4 | 0 |
| 5-17 | 0 |
| 18-49 | 4 |
| 50-64 | 9 |
| 65+ | 19 |

Note: Data are provisional and subject to change, errors, and duplicates

Statewide Influenza Activity Map

Figure 5: Texas Map Displaying the Highest Level of Influenza or ILI Activity Reported by County for the Week Ending January 8, 2022 (MMWR Week 1)

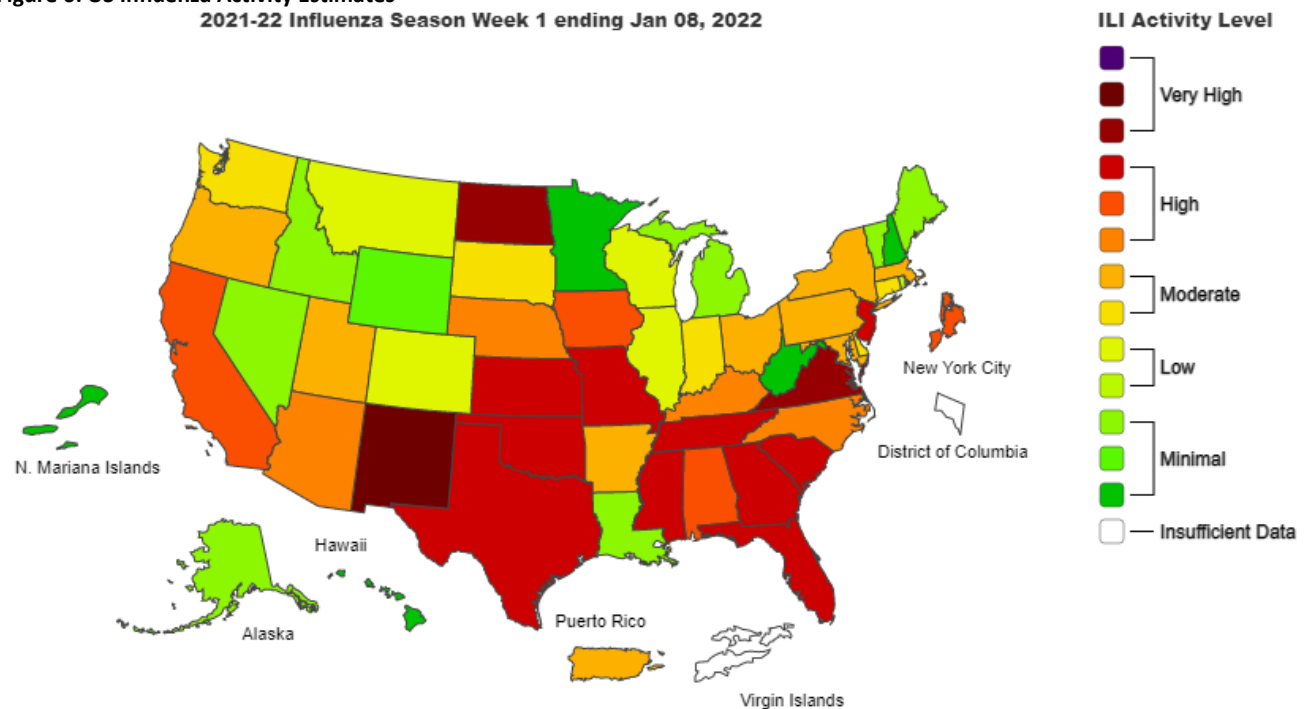


Note: The majority of influenza cases are not reportable by law in Texas. This map contains data from sentinel sites and only displays influenza and ILI cases that were reported to public health. Positive laboratory results are reported according to specimen collection date, or date received in the laboratory if the former is unknown.

Source: <http://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/>

Nationwide Influenza Activity Map

Figure 6: US Influenza Activity Estimates
2021-22 Influenza Season Week 1 ending Jan 08, 2022



Source: <https://www.cdc.gov/flu/weekly/usmap.htm>

- **View More Bexar County Weekly Influenza Reports on San Antonio Metropolitan Health District's Website:**
<https://www.sanantonio.gov/Health/News/HealthDataReports>
- Note: Bexar County seasonal baseline was calculated using a method similar to CDC's National/Regional baseline calculation. For further information on this method, please visit: <https://www.cdc.gov/flu/weekly/overview.htm>
- Influenza-like illness (ILI): patients with a fever of $\geq 100^{\circ}\text{F}$ and a cough/sore throat
- Influenza activity codes are determined using GIS and are based on influenza activity per zip code tabulation area (ZCTA) within a quadrant-based system for Bexar county.
 - No activity = No or low ILI activity (all four quadrants have <20 per ZCTA population) and no lab confirmed cases
 - Sporadic = Isolated cases of lab confirmed influenza and increased ILI activity in at least one of the four defined Bexar quadrants, but activity does not exceed 100 cases per ZCTA population.
 - Localized =ILI activity within one Bexar quadrant increases above 100 cases per ZCTA population, but all other quadrants remain below 100 cases AND lab confirmed cases have increased since the previous week
 - Widespread = ILI activity has increased above 100 cases per ZCTA population in 2 or more quadrants and lab confirmed cases of influenza have had an increased activity level at least one of the three prior reporting weeks
- **For questions about influenza surveillance and reporting for Bexar County**, email SA Metro Health's Influenza Surveillance Coordinator, Christina Carmona @ christina.carmona@sanantonio.gov